N48°45'19"E
273.88'
N39°35'09"W
120.98'
N44°10'12"E
54.60'
S44°10'12"W
343.34'
CULVERT
SWALE
C1
MIN 35'
EXISTING 3 BEDROOM HOUSE W/ BASEMENT
FFL EL 51.2±
SLAB EL 42.7±
DECK
HOT TUB
ABOVE GROUND POOL
BB48
FG50
TP
CATCH BASIN
106
1 50.00 SETPK
2 45.29 SETHUB
3 47.31 endwll
4 53.65 edgwds**
5 53.98 edgwds**
6 53.70 edgwds**
7 54.34 edgwds**
8 54.17 edgwds**
9 55.61 ts
10 55.59 ts
11 54.42 edgwds
12 56.65 gnd
13 54.49 anchor**
14 54.74 pole1789
15 55.00 ep
16 52.12 ctchbasn
17 49.31 edgwds
18 48.74 swale
19 48.92 ep
20 46.50 swale
21 46.50 swale
22 47.79 eppost*
23 44.60 curv
24 45.58 corwll**
25 46.49 epdr
26 47.27 corepdr
27 46.97 corepdr*
29 43.22 epdrpc
30 42.14 corshed
31 42.23 corshdx8
32 42.54 corgar**
33 44.26 opendwll
34 43.21 endculv
35 250.09 pole**
36 42.18 hdwll**
37 48.02 corhse
38 50.57 stpos***
39 49.56 corhse
40 48.41 16pipe
41 47.99 edgwds
42 48.70 edgwds
43 48.57 pit
44 49.02 lawn
45 49.03 lawn
46 48.74 lawn
47 48.42 Ebed
48 48.44 edgwds
49 49.27 setnlrt**
50 49.81 bastns
51 47.83 edgwds
52 47.29 setnlhk
53 47.27 18
54 48.45 toppip***
55 48.15 lawn
56 50.10 chitopwr
57 46.51 corhse
60 48.16 cordeck6
61 48.07 crdk***
62 44.66 @pool
63 43.46 @pool
64 43.34 @pool
65 41.21 ****
66 42.43 edgwdswet
67 43.01 lowwet
68 43.73 edgwwe**
69 43.13 woods
70 45.49 woods
71 48.59 woods**
72 49.56 stns**
100 54.34 fnddh1up
101
102

No.	Delta	Radius	Arc Length	Chord Length	Chord Bearing
C1	106°03'29"	60.00	111.06	95.87	N23°05'12"E

Command= 210-
Point#, Start#-End# or G#= 1-133

Bearing	Distance	Elev	Descrip	Pnt.	Northing	Easting	Type
----------01-15-2025-----				15:19:55		----------D:...\BMHOME9	
		50.00	SETPK	1	4995.1480	4981.6449	
		45.29	SETPK	2	4910.3976	5114.5056	TRA
		54.34	fnddh1up	3	4856.9244	5028.0019	SS
		53.70	edgwds**	4	4884.6989	5034.0243	SS
		53.98	edgwds**	5	4874.4513	5026.5515	SS
		53.65	edgwds**	6	4885.7534	5034.0058	SS
		54.34	edgwds**	7	4912.7983	5012.5275	SS
		54.77	edgwds**	8	4908.9538	4991.1798	SS
		55.61	ts	9	4892.9747	5005.7139	SS
		55.59	ts	10	4882.5280	5015.5396	SS
		54.42	edgwds	11	4917.5512	4980.9413	SS
		56.65	gnd	12	4902.3856	4951.3628	SS
		54.49	anchor**	13	4939.6366	4943.3481	SS
		54.74	pole1789	14	4951.8531	4933.9158	SS
		55.00	ep	15	4957.2855	4929.4519	SS
		52.12	ctchbasn	16	4962.8728	4953.3832	SS
		49.31	edgwds	17	4975.4747	4991.7351	SS
		48.74	swale	18	4984.6057	4992.4275	SS
		48.92	ep	19	5005.1004	4996.0636	SS
		47.31	endwll	20	4994.0773	5013.6870	SS
		46.54	swale	21	5012.7019	5021.7843	SS
		47.79	eppost*	22	5019.8913	5011.8424	SS
		44.60	culv*	23	5038.4337	5035.8276	SS
		45.58	corwll**	24	5038.1525	5039.8890	SS
		46.49	epdr	25	5048.3900	5029.8465	SS
		47.27	corepdr	26	5039.0606	5017.4662	SS
		46.97	corepdr*	27	5062.9529	5014.9886	SS
		43.61	@fndstk*	28	5077.8896	5026.5465	SS
		43.22	epdrpc	29	5058.0644	5061.7891	SS
		42.14	corshed	30	5071.3056	5083.9631	SS
		42.23	corshdx8	31	5067.7449	5097.3804	SS
		42.54	corgar**	32	5032.0843	5069.0618	SS
		44.26	ependwll	33	5045.0818	5057.1104	SS
		43.21	endculv	34	5065.0025	5050.0647	SS
		250.09	pole**	35	5074.6670	5051.1292	SS
		42.18	hdwll**	36	5088.6242	5057.1155	SS
		48.02	corhse	37	5018.5449	5065.0451	SS
		50.57	stoop***	38	5005.5515	5063.3754	SS
		49.15	corhs***	39	4984.3588	5061.5598	SS
		48.41	16pine	40	4982.1261	5038.3181	SS
		47.99	edgwds	41	4965.3705	5028.9181	SS
		48.70	edgwds	42	4945.9808	5031.8211	SS
		48.57	pit	43	4949.8254	5040.0656	SS
		49.02	lawn	44	4957.5338	5049.5764	SS
		49.03	lawn	45	4964.3484	5060.2137	SS
		48.74	lawn	46	4969.2604	5067.6221	SS

JOB #5 587LAVERTY [133]

Bearing	Distance	Elev	Descrip	Pnt.	Northing	Easting	Type
		01-15-2025		15:19:55		D:...\BMHOME9	
		48.42	Ebed	47	4942.9284	5056.7440	SS
		48.44	edgwds	48	4932.7605	5047.4802	SS
		49.27	setnlrt*	49	4933.4591	5036.1826	SS
		49.81	bsstns	50	4925.4763	5024.7917	SS
		47.83	edgwds	51	4929.4585	5069.1527	SS
		47.29	setnlhk	52	4923.6442	5082.9401	SS
		47.27	18	53	4940.7750	5088.2492	SS
		48.45	toppip**	54	4944.6004	5077.0064	SS
		48.15	lawn	55	4963.7941	5076.0968	SS
		50.15	chitopwl	56	4981.9876	5065.5389	SS
		46.51	corhse	57	4981.1906	5087.2737	SS
		45.59	@hottub*	58	4993.1630	5094.4528	SS
		45.26	clstps**	59	4991.0153	5098.9750	SS
		48.16	cordeck6	60	5007.7935	5123.9219	SS
		48.07	crdk***	61	4994.0608	5122.3487	SS
		44.66	@pool	62	4983.6321	5100.9967	SS
		43.46	@pool	63	4972.7506	5115.4398	SS
		43.34	@pool	64	4986.9497	5125.9312	SS
		41.21	****	65	4945.7013	5157.0312	SS
		42.43	edgwdswe	66	4947.1982	5130.0529	SS
		43.01	lowwet	67	4929.7806	5113.6923	SS
		43.73	edgwwe**	68	4945.8853	5104.6158	SS
		43.13	woods	69	4913.7306	5141.7928	SS
		45.49	woods	70	4869.9487	5133.7651	SS
		48.59	woods**	71	4840.6276	5096.3644	SS
		49.56	stns**	72	4898.6077	5051.9266	SS
				100	4856.9244	5028.0019	
				101	4896.0877	5066.0466	TRA
				102	4989.3234	4988.9541	TRA
				103	5142.3571	5305.2824	TRA
				104	5258.0807	5232.4786	TRA
				105	5077.5181	5026.5480	TRA
				106	5047.5704	4974.5563	INT

Point#, Start#-End# or G#= 4-

APPROVAL FOR CONSTRUCTION

CA2010100507 N.H. DEPARTMENT OF ENVIRONMENTAL SERVICES CA2010100507
SUBSURFACE SYSTEMS BUREAU
P.O. BOX 95, 29 HAZEN DRIVE, CONCORD, NH 03302-0095 APPROVAL NO.

THE PLANS AND SPECIFICATIONS FOR SEWAGE OR WASTE DISPOSAL SYSTEM SUBMITTED FOR:

OWNER: DAVID/MARGARET LAVERTY
8 LAMINGTON PL
STRATHAM NH 03885-

COPY SENT TO: TOWN OF STRATHAM
10 BUNKER HILL AVE
STRATHAM NH 03885

BY APPLICANT: PERMIT NO. 00348
STOCKTON SERVICES
PO BOX 1306
HAMPTON NH 03843-1306

Map No./Lot No.: 4/37-4
Subd. Appvl. No.: 21344
Subd. Name: CARLISLE REALTY TRUST
County: ROCKINGHAM
Registry Book No.: 3295
Registry Page No.: 2138
Probate Docket No.: (If Applicable)
Type of System: N
3 BR
450 GPD
Town/City Location: STRATHAM
Street Location: 8 LAMINGTON PLACE

Subsurface waste disposal systems must be operated and maintained in a manner so as to prevent nuisance or health hazard due to system failure. (RSA 485-A:37)

It is unlawful to discharge any hazardous chemicals or substances into subsurface waste disposal systems. Included are paints, thinners, gasoline and chlorinated hydrocarbon solvents such as TCE, sometimes used to clean failed septic systems and auto parts. (Env-Ws 1503.04)

ADVISE YOUR CONTRACTOR OF REQUIRED CHANGES IN PLANS AS INDICATED BELOW CONDITIONS

1. THIS APPROVAL IS VALID FOR 90 DAYS FROM DATE OF SAID APPROVAL, PER ENV-WQ 1003.22.
2. THIS APPROVAL IS GRANTED ONLY TO IMPROVE AN EXISTING SITUATION.
3. APPROVED WITH A COMMUNITY WATER SUPPLY ONLY.
4. WAIVERS GRANTED.

Approved this date: 04/20/2010 By: ERIC J THOMAS
N.H. Department of Environmental Services Staff
Date amended: _____ Amended by: _____ (OVER)

REVISED 8/01
201000650 APPLICANT'S

PERC RATE: N/A FOR CLEAN SOLUTION SYSTEM

CA2010100507

DESIGN LOADING: EXISTING 3 BEDROOM HOUSE

AREA REQUIRED: WAI MINIMUM 75–100 SF REQUIRED

AREA PROPOSED: 15' X 30' = 450 SF PROVIDED

REVIEWED AND APPROVED
IN ACCORDANCE WITH THE
REQUIREMENTS OF THE
H DEPT OF ENVIRONMENTAL SERVICES
WATER DIVISION
gned Eric Thomas
ate 4-20-10

ADVISE YOUR CONTRACTOR OF REQUIRED CHANGES IN PLANS AS INDICATED ON THIS CONDITIONAL APPROVAL.

RECEIVED
APR 14 2010
ROCKINGHAM COUNTY CONSERVATION DISTRICT

PROPOSED REPLACEMENT

SEPTIC SYSTEM PLAN

EXISTING FAILED SYSTEM

CENTER OUTLET
BE LEVEL
*

LOCUS: 8 LAMINGTON PLACE, STRATHAM, NH
TAX MAP 4 LOT 37–4

OWNER: DAVID & MARGARET LAVERTY
8 LAMINGTON PLACE
STRATHAM, NH 03885

NEW HAMPSHIRE
Designer
of
Subsurface Disposal
Systems
* * *
Ann W. Bialobrzeski
No. 348
Water Supply & Pollution Control

APPLICANT:
STOCKTON SERVICES
PO BOX 1306
HAMPTON, NH 03843–1306
603 929–7404

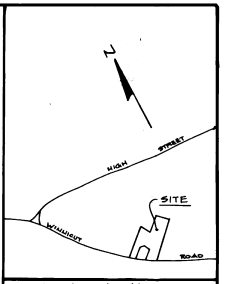
DATE: APRIL 2, 2010

APPROVAL: _____

587

RECEIVED
APR 19 2010
By Subsurface

Nov 6 1 00 PM '85 54695



LOCATION MAP

LEGEND

- I.P. (FOUND)
- I.P. (SET)
- D.H. (FOUND)
- D.H. (SET)
- S.B. (FOUND)
- S.B. (SET)
- STONE WALL
- FENCE (BARBED WIRE)
- FENCE (OTHER)
- PROPERTY LINE

NOTE:
BOUNDARY INFORMATION TAKEN FROM PLAN TITLED: SUBDIVISION OF LAND FOR GERTRUDE M. MARSTON, IN STRATHAM, NH. DATED NOV. 1984, BY PARKER SURVEY ASSOC. INC., EXETER & SEABROOK, NH.

APPROVED BY STRATHAM PLANNING BOARD
D. Samuel Hunter chairman 10/31/1985

KIMBALL CHASE company, inc.
40 Bridge Street
Portsmouth
New Hampshire 03801
603-431-2520
Civil Environmental Engineers

SUBDIVISION PLAN
FOR
CARLISLE REALTY TRUST

DESIGNED BY
DRAWN BY SBM
APPROVED BY
DATE 6/19/85

LAMINGTON HILL
IN
STRATHAM, NH

SCALE 1" = 100'-0"

PROJECT NO. 85-906
SHEET NO. 1 of 1

D-14280

Printed from Internet by Acct #: S58 on 12/29/2009

Birnum Wood Road
Chestnut Way
Lamington Hill Road
Lamington Pl
Winnicutt Road
Humes Court
Coach Road
Union Road
Shannon Dr.
Barnes Dr.
Muirfield Drive
Merle's Ln
4--60-3A
4--60-4S
4--60-5S
4--60-4A
4--60-6S
4--60-7S
4--60-8S
4--60-10S
4--60-11S
4--60-12S
4--60-13S
4--60-20S
4--60-21S
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18--33
18--34
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26

WASTEWATER ALTERNATIVES, INC
developing innovative solutions with sustainable results
2 Whitney Road – Suite 10 - Concord, NH 03301

Telephone: 603-783-8042 Toll Free: (866) 900-2415 Fax (603) 369-4747
www.thecleansolution.com email: info@thecleansolution.com

March 31, 2010

David & Margaret Laverty
8 Lamington Place
Stratham, NH 03885

Dear Mr. & Mrs. Laverty:

Thank you for choosing to use ***THE CLEAN SOLUTION™*** alternative septic system for your existing 3-bedroom single-family home located at 8 Lamington Place in Stratham, NH. Attached is a sales agreement for the system. This agreement describes what you are buying, the required maintenance, your warranty, the price and the terms of sale.

The following is enclosed:

1. A complete copy of the Sales Agreement and Inspection Contract for your records.

2. **Inspection Contract** - Return one signed copy to Anne Bialobrzesk of Stockton Services. Anne will send one signed copy to NHDES with your subsurface disposal plan submittal. NHDES needs this for their records to show that you are aware of the required maintenance.

3. **Sales Agreement and Inspection Contract –** Please sign and return with the initial payment to WAI approximately three weeks prior to the system installation. Please provide WAI with the name and contact information of your installer. This information is needed to allow WAI to coordinate the installation date.

I look forward to working with you. Please give me a call if you would like to discuss the system or the sales agreement.

Sincerely,

Gary R. Spaulding
General Manager

WASTEWATER ALTERNATIVES, INC

2 Whitney Road – Suite 10 - Concord, NH 03301

Telephone: 603-783-8042 Toll Free: (866) 900-2415 Fax (603) 369-4747
www.thecleansolution.com email: gary@thecleansolution.com

RESIDENTIAL
SALES AGREEMENT
March 31, 2010

BUYER:	
Name:	David & Margaret Laverty
Address:	8 Lamington Place
City, State Zip:	Stratham, NH 03885
Phone:	
Cell:	
Email:	

OWNER-IF DIFFERENT:
Name:
Address:
City, State Zip:
Phone:
Cell:
Email:

SITE:	
Property ID:	Tax Map 4 Lot# 37-4
Address:	8 Lamington Place
City, State, Zip:	Stratham, NH 03885
Waterbody:	N/A

Property Type:
Residential Single Family: Yes
Residential Seasonal: No

Wastewater Alternatives, Inc. (WAI) agrees to supply a Model **250ST-R3** ***CLEAN SOLUTION™*** Sewage Treatment System to the buyer installed at the above site in accordance with the attached specifications and the subsurface disposal plan submitted for a *full time, 3-bedroom, single family home* by *Stockton Services*, as approved by NHDES. ***THE CLEAN SOLUTION*** system has been designed based on design parameters provided by the designer / owner. Change of use that results in the increase in daily flow or wastewater strength will require approval by WAI. Approval from NHDES and Local Land Use Boards may also be required.

SHOULD THE ABOVE PROPERTY BE SOLD, THE ABOVE OWNER SHALL PROVIDE THE NEW OWNER WITH A COPY OF THIS AGREEMENT. THE TERMS AND CONDITIONS OF THIS AGREEMENT WILL TRANSFER TO THE NEW BUYER AND BECOME BINDING ON THE NEW OWNER(S).

This Sales Agreement is subject to the following conditions:

1. The buyer has retained a licensed designer and has obtained all necessary approvals from NHDES and Local Land Use Boards.
2. The buyer will provide WAI with copies of the plans approved by NHDES.
3. The buyer has or will have retained a qualified installer licensed by the State to install Subsurface Disposal Systems prior to system installation.
4. This agreement contains a required maintenance schedule. Failure to perform the required maintenance could result in premature failure of the dispersal field and void the warranty of system and system components.

WASTEWATER ALTERNATIVES, INC
2 Whitney Road – Suite 10 - Concord, NH 03301

Telephone: 603-783-8042 Toll Free: (866) 900-2415 Fax (603) 369-4747
www.thecleansolution.com email: gary@thecleansolution.com

SYSTEM COMPONENTS PROVIDED BY WAI:

WAI will provide the following system components as shown on the attached design schematic and specifications. These components shall be installed as shown on the design plans by a qualified installer licensed by the State of NH to install Subsurface Disposal Systems.

1. A 3-chamber 2,100-gallon (1,250/350/500) standard duty tank with manufacturer applied Conseal 4" Conwrap and Karnak 100 AF waterproofing. to function as a septic tank, an aerobic treatment tank, and settling tank.
2. Plastic access covers and plastic risers to a maximum height of 24". If depth of cover over the top of the tank exceeds 24", the site contractor shall provide additional risers as necessary. Contractor shall ensure that all risers are watertight and that all screws and gaskets are in place and that the cover(s) have been secured. If concrete risers, covers or cast iron covers are used, contractor shall use water plug or an equivalent method to ensure water tightness.

WAI will provide the following system components and labor to install components as shown in the attached design schematic and specifications:

1. Plastic Media in BioCon™ Chamber
2. 1 – SL44 Compressor - Owner and WAI will mutually determine placement of the compressor. Compressor needs to be within 50' of the BioCon tank.
3. Oxygen transfer system.
4. Baffles within BioCon™ Chamber and settling tank.
5. Air compressor shelf.

Electrical Requirements to be provided by Owner:

1. **Owner shall be responsible for hiring a licensed electrician.**
2. A 120-volt outlet, non-ground fault circuit capable of supplying 1 amp continuously for each compressor and that meets current electrical codes adopted by The State of NH or local Municipality. Location of the outlet(s) shall be within 50' of the BioCon Chamber. (The power required for each compressor is approximately the same as a 100 watt light bulb)

Following not provided by WAI:

1. Additional septic tanks.
2. Exterior housing unit for the compressor(s).
3. Exterior Venting may be required for older homes or systems where effluent is pumped to ***THE CLEAN SOLUTION*** system.

All system components supplied by WAI are standard duty rated. Heavy Duty tanks and risers shall be required when the depth of fill exceeds 3 feet but is less than 5 feet. H-20 loaded tanks and risers will be required when the depth of fill is 5 feet or greater and/or is subject to vehicular traffic. Contact WAI for updated pricing for Heavy Duty or H-20 loaded components.

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OWNER HAS THE FOLLOWING UNDERSTANDING

THE CLEAN SOLUTION system has been designed based on information provide by the owner(s) or owner(s) designer/engineer. Failure to install the subsurface disposal system according to the approved plan will void system warranty and performance specifications. The owner(s) contractor shall ensure that all risers are watertight and all system components, both upstream and downstream of ***THE CLEAN SOLUTION*** system are watertight to prevent infiltration from groundwater and surface runoff. ***THE CLEAN SOLUTION*** system has not been designed to handle backwash discharge from Water Softeners or other high water use fixtures such as hot tubs or spa style showers. WAI recommends that backwash discharge or water from high water use fixtures be discharged into an approved drywell. If the septic system requires an effluent pump to be used to discharge effluent to the dispersal field, WAI recommends that the pump be placed in a separate pump tank external of ***THE CLEAN SOLUTION*** system on an 8" high concrete block. The pump chamber shall be inspected on a two-year cycle for sludge buildup and pumped as necessary to prevent sludge from being pumped to the dispersal field. If the effluent pump is placed within ***THE CLEAN SOLUTION*** system-settling tank then the pump shall be placed on a concrete block that is 12" high and the settling chamber shall be inspected on a yearly basis for sludge buildup and pumped as necessary to prevent sludge from being pumped to the dispersal field. More frequent inspections and pumping may be required based on system loading and occupant use.

MAINTENANCE SUGGESTIONS:

There is an ongoing concern with pharmaceuticals, medical treatments, and personal care products and how these products affect septic system functions. Although there is not yet enough data to clearly understand the impacts of these products on septic systems, it is known that without the proper balance of bacteria in the septic tank, waste cannot break down as efficiently.
WAI recommends the following:
1. The EPA suggests that unused pharmaceuticals, either prescription or over the counter medicines, not be disposed of in the septic system by flushing them down the drain. See if your local pharmacy has a take back program or dispose of them in the trash.
2. If a resident of the home is undergoing medical treatment with high strength antibiotics, the system should be inspected on an annual basis to determine the proper maintenance schedule.

PERFORMANCE SPECIFICATIONS:

This system has been designed based on the following estimated residential wastewater influent strength from the primary treatment tank(s) of 180 mg/l BOD5, 150 mg/l TSS and <5 mg/l FOG. The system is warranted to discharge clean, odor free water to the dispersal field, equivalent or better than 30mg/l BOD5, 30mg/l TSS.

RIGHTS TO DATA AND ACCESS TO THE SYSTEM

WAI reserves the right of reasonable access to collect data, modify, maintain and repair ***THE CLEAN SOLUTION*** and its subsystems. WAI will retain all data collected and the rights to it.

DELIVERY

WAI will be prepared to install the system approximately 3 weeks after you have chosen an installer and returned a signed copy of this agreement with the initial payment to WAI. **It is important that WAI be able to coordinate with the installer. Owner to provide WAI with the installer's contact information.**

TRADE SECRETS

THE CLEAN SOLUTION is the result of the expenditure of much effort and money. The design of the components and operational cycle are the intellectual property of WAI and may not be revealed without written permission.

WASTEWATER ALTERNATIVES, INC
2 Whitney Road – Suite 10 - Concord, NH 03301

Telephone: 603-783-8042 Toll Free: (866) 900-2415 Fax (603) 369-4747
www.thecleansolution.com email: gary@thecleansolution.com

WARRANTY FOR RESIDENTIAL SINGLE FAMILY SYSTEM

For a period of 10 years, WAI will warranty the components within BioCon™ chamber and repair or replace any of these components, including parts and labor, at no cost to you. This does not cover pumping the system to make necessary repairs.

WAI will extend the compressor manufacturer's warranty from two to four years. This covers compressor(s) that have been maintained and used under normal operating conditions. WAI will provide replacement air compressor(s) at cost-plus shipping for compressors not covered under warranty. Labor to replace compressor(s) will be billed out at WAI standard hourly rates.

Warranty for pump chamber components (pump, floats, alarms) installed by WAI is limited to the pump / floats / alarm manufacturer's terms and conditions. Labor to replace sump / effluent pump / floats / alarms will be billed out at WAI standard hourly rates.

This warranty does not cover system failures caused by water fixture leaks, water overuse, and groundwater leaks or flooding.

Warranty of all other types of dispersal fields (i.e. fabric style leaching components) is limited to manufacturer's warranty and not covered by WAI or WAI warranties.

Owner(s) responsibility during this period is to perform the required maintenance and have an inspection contract with WAI or an approved vendor in effect at all times. Failure to perform the required maintenance, have an inspection contract, and maintain records of pumping or to notify WAI of any problems will void this warranty. This warranty also does not cover damage caused by improper use, poor construction or design practices, high groundwater, flooding or acts of God.

THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES. ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY OR OTHERWISE, APPLICABLE TO THE SEWAGE TREATMENT SYSTEM SHALL BE LIMITED IN DURATION TO ONE YEAR.

*WASTEWATER ALTERNATIVES INC. SHALL NOT BE LIABLE FOR ANY DIRECT OR INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES. NOR SHALL WASTEWATER ALTERNATIVES, INC. LIABILITY UNDER THIS WARRANTY EXCEED THE PRICE PAID BY THE BUYER TO WASTEWATER ALTERNATIVES, INC. FOR **THE CLEAN SOLUTION SYSTEM**.*

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PAYMENT

The agreed upon price for the WAI equipment and services detailed in the Sales Agreement is **$7,100.00. ($300 fee applied to price for tank waterproofing.) ELECTRICAL WORK NOT INCLUDED IN PRICE.**

Payment is requested as follows:
$3,550.00 upon signing this agreement
$3,550.00 immediately upon WAI installing system components.
Ownership will transfer to the buyer upon final payment. Failure to pay WAI will void all warrantees.

The price does not include electrical wiring, excavation to install the components of this system, dispersal field, or connections from the house to ***THE CLEAN SOLUTION*** or to the dispersal field.

THIS PRICE IS VALID FOR 60 DAYS FROM THE DATE OF THIS DOCUMENT. ALL SYSTEM COMPONENTS MUST BE INSTALLED WITHIN 60 DAYS OF INITIAL DEPOSIT.

Please send payment to:
Wastewater Alternatives Inc.
2 Whitney Road – Suite 10
Concord, NH 03301

If Paying by Credit Card please call:
WAI Accounting Department
1-978-448-2280

By signing below the owner or owner's representative has read the SALES AGREEMENT and attached INSPECTION CONTRACT requirements and agrees to the terms of the SALES AGREEMENT and to perform the necessary maintenance and inspections as outlined in the INSPECTION CONTRACT.

ACCEPTED:

BUYER:

David & Margaret Laverty
8 Lamington Place
Stratham, NH 03885
Phone:

SELLER:

Wastewater Alternatives, Inc.
Gary R. Spaulding
General Manager

DATE: **March 31, 2010**

WASTEWATER ALTERNATIVES, INC

2 Whitney Road – Suite 10 - Concord, NH 03301

Telephone: 603-783-8042 Toll Free: (866) 900-2415 Fax (603) 369-4747
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RESIDENTIAL
INSPECTION AGREEMENT
March 31, 2010

BUYER:	
Name:	David & Margaret Laverty
Address:	8 Lamington Place
City, State Zip:	Stratham, NH 03885
Phone:	
Cell:	
Email:	

OWNER-IF DIFFERENT:
Name:
Address:
City, State Zip:
Phone:
Cell:
Email:

SITE:	
Property ID:	Tax Map 4 Lot# 37-4
Address:	8 Lamington Place
City, State, Zip:	Stratham, NH 03885
Waterbody:	N/A

Property Type:
Residential Single Family: Yes
Residential Seasonal: No

MAINTENANCE REQUIRED:

The following maintenance is required. It is the owner's responsibility to see that this maintenance is performed.

☒ **Full Time Residential Use (Single Family Home)**

1. Inspection every 2 years by a WAI Technician or by a company or individual that has been certified by WAI to perform inspections.
2. Use a local pumper to pump out the septic and settling/pump tanks every 2 to 3 years. More or less frequent pumping may be required depending on system use and number of occupants. WAI and the pumper can determine the required frequency. Owner must retain records of pumping.
3. Compressor must run continuously. It should be checked for operation at least once a month.
4. BioCon™ chamber may require pumping between 6 and 8 years. WAI Technician will determine if pumping is necessary during inspection.
5. Compressor Air Filter to be cleaned or replaced yearly.

☐ **Seasonal Residential Use (Single Family Home when used less than 6 months per year)**

1. Inspection every 3 years by a WAI Technician or by a company or individual that has been certified by WAI to perform inspections.
2. Use a local pumper to pump out the septic and settling/pump tanks every 2 to 4 years. More or less frequent pumping may be required depending on system use and number of occupants. WAI or the pumper can determine the required frequency. Homeowner must retain records of pumping.
3. Compressor must run continuously. It should be checked for operation at least once a month.

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4. Compressor may be disconnected during the off-season.
5. BioCon™ chamber may require pumping between 8 and 10 years. WAI Technician will determine if pumping is necessary during inspection.
6. Compressor Air Filter to be cleaned or replaced yearly.

Additional Maintenance Suggestions:

There is an ongoing concern with pharmaceuticals, medical treatments, and personal care products and how these products affect septic system functions. Although there is not yet enough data to clearly understand the impacts of these products on septic systems, it is known that without the proper balance of bacteria in the septic tank, waste cannot break down as efficiently.
WAI recommends the following:
1. The EPA suggests that unused pharmaceuticals, either prescription or over the counter medicines, not be disposed of in the septic system by flushing them down the drain. See if your local pharmacy has a take back program or dispose of them in the trash.
2. If a resident of the home is undergoing medical treatment with high strength antibiotics, the system should be inspected on an annual basis to determine the proper maintenance schedule.

Following the above schedule will fulfill your obligations to maintain your warranty.

The first inspection is included in the sales price. Maintenance Contracts are available from WAI. The service will include a detailed inspection of the system and replacement of any failed items within the BioCon Chamber. Tank pumping is not included in the price and must be arranged by the property owner. Failure to have a maintenance agreement with WAI or an approved vendor will void maintenance warranty outlined in the **Sales Agreement.**

INSPECTION FEE SCHEDULE
Single Family Residential Homes – fee is $200.00 per inspection plus the cost of replacement parts not covered by warranty.

Inspection fees may be revised by WAI as needed to adjust cost of services.

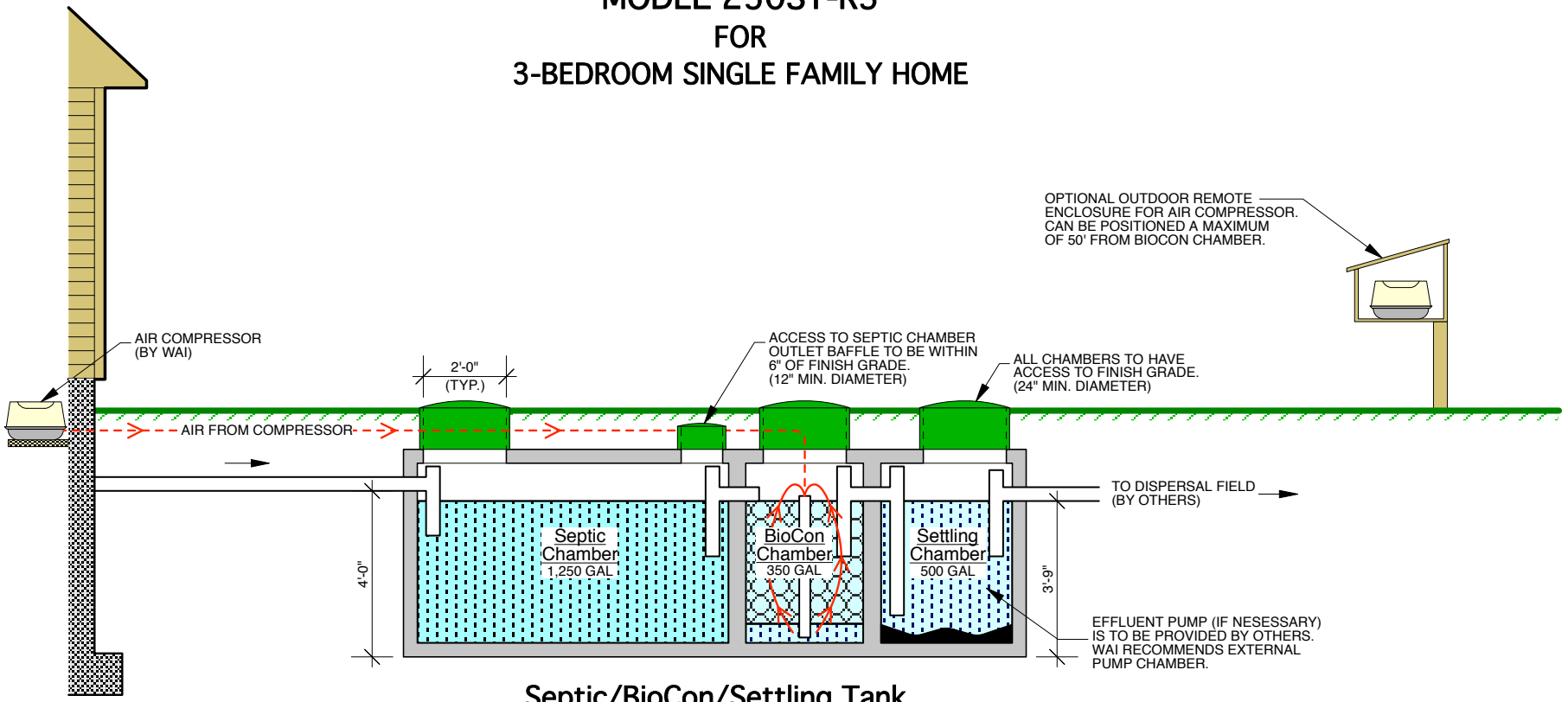
Inspection fees will be billed at time of service. Failure to perform inspection or pay for inspection will void WAI warranty.

By signing below the owner or owner's representative has read the above Maintenance requirements and conditions outlined in the SALES AGREEMENT and agrees to perform the necessary maintenance and inspections as outlined.

ACCEPTED:
BUYER:

David & Margaret Laverty
8 Lamington Place
Stratham, NH 03885
Phone:
DATE:

THE CLEAN SOLUTION™ ALTERNATIVE SEPTIC SYSTEM
MODEL 250ST-R3
FOR
3-BEDROOM SINGLE FAMILY HOME


OPTIONAL OUTDOOR REMOTE ENCLOSURE FOR AIR COMPRESSOR. CAN BE POSITIONED A MAXIMUM OF 50' FROM BIOCON CHAMBER.
AIR COMPRESSOR (BY WAI)
2'-0" (TYP.)
ACCESS TO SEPTIC CHAMBER OUTLET BAFFLE TO BE WITHIN 6" OF FINISH GRADE. (12" MIN. DIAMETER)
ALL CHAMBERS TO HAVE ACCESS TO FINISH GRADE. (24" MIN. DIAMETER)
AIR FROM COMPRESSOR
TO DISPERSAL FIELD (BY OTHERS)
Septic Chamber 1,250 GAL
BioCon Chamber 350 GAL
Settling Chamber 500 GAL
4'-0"
3'-9"
EFFLUENT PUMP (IF NESESSARY) IS TO BE PROVIDED BY OTHERS. WAI RECOMMENDS EXTERNAL PUMP CHAMBER.

Septic/BioCon/Settling Tank

- Provided by WAI -

2,100 GAL 3-Compartment Tank

(15'0"L x 6'6"W x 5'0"H)

Tank from:

A.J. Foss Inc.
Farmington, NH 03835
Tel: 603-755-2515

NOTES:

1. Septic & Settling Compartments must be pumped every 2 to 3 years. More frequent pumping may be required depending on use.
2. Tank is not suitable for drive on use. Heavy Duty and H-20 models available.
3. Contractor to verify tank dimensions prior to setting.
4. Plastic risers will be provided to suite site (up to 24" depth). Contractor to provide additional risers to finish grade if cover over tank exceeds 24".

Site: Tax Map 4, Lot# 37-4 8 Lamington Place Stratham, NH 03885	Owner: David & Margaret Laverty 8 Lamington Place Stratham, NH 03885	Date 03/31/2010 Rev.	WASTEWATER ALTERNATIVES, INC. **THE CLEAN SOLUTION™** 2 Whitney Road - Suite 10 Concord, NH 03301 Tel. 1-866-900-2415 Fax. 603-369-4747 www.thecleansolution.com

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WASTEWATER ALTERNATIVES, INC
developing innovative solutions with sustainable results
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Concord, NH 03301
Telephone: 603-783-8042 Toll Free: (866) 900-2415 Fax (603) 369-4747
www.thecleansolution.com email: info@thecleansolution.com

THEORY of *THE CLEAN SOLUTION*

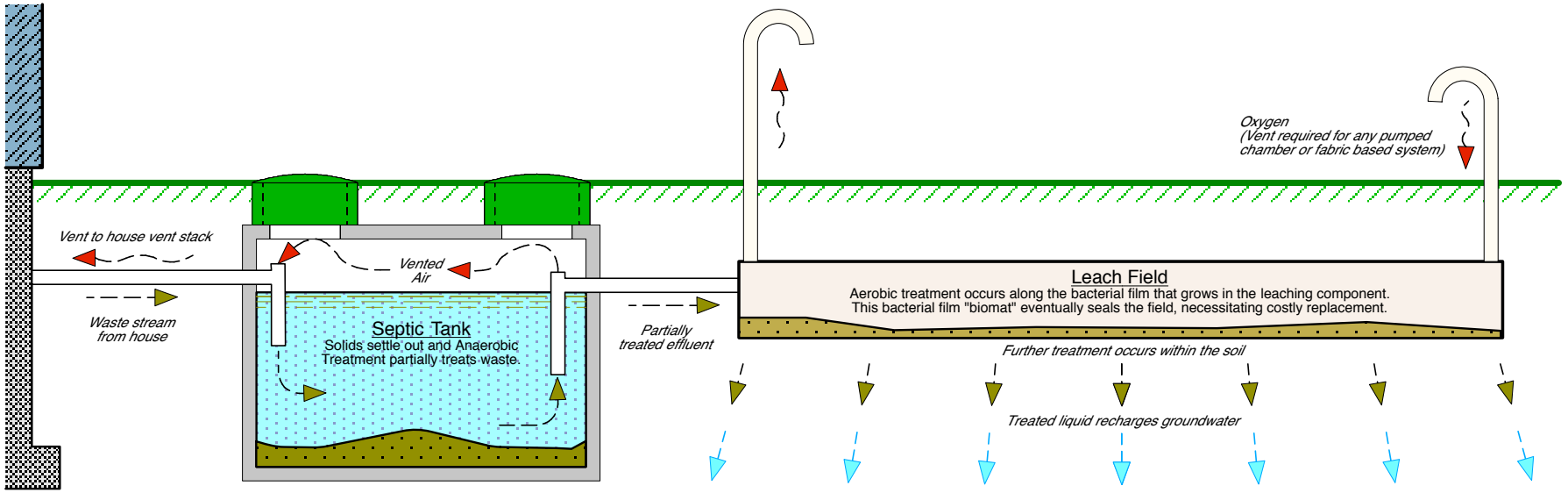
Conventional small to mid-size sewage systems normally use a septic tank followed by a leach field to first provide anaerobic (without air) and then aerobic (with air) treatment of the effluent. Septic tanks work well for capturing and digesting the solids, which are anaerobically fermented over a long period of time, dissolving the solids into the liquid waste. However, a septic tank is not designed to treat the contaminants that dissolve in the liquids. These are treated aerobically in the leach field. Municipal systems, which handle very large volumes of wastewater use different equipment to accomplish the same biological functions: primary sedimentation tanks remove solids, and a subsequent aerobic system treats the contaminants dissolved in the liquids. Settled solids are removed from municipal primary and secondary facilities for further treatment.

All aerobic treatment systems, whether a conventional leach field, municipal treatment plant, or *THE CLEAN SOLUTION*, depend on bacteria to purify the effluent from a solids settling system. In order for bacteria to reproduce they require energy (food) and air. By using the contaminants in the effluent as food and atmospheric air the bacteria metabolize the dissolved solids to carbon dioxide, water and sludge (colonies of bacteria). The aerobic bacteria also convert ammonia compounds to nitrates.

A large number of bacteria need to come in contact with the food source in order to purify an effluent. Treatment systems utilize different methods to provide the necessary bacteria population. A municipal system mechanically stirs up the bacteria in the secondary treatment process so that they will contact their food and not settle out of the effluent. In a leach field, the sludge (biomat) that forms at the ground interface is a large colony of bacteria through which the dissolved solid stream flows. In *THE CLEAN SOLUTION* the bacteria collect in a thin film on the plastic media in WAI'S proprietary BioCon biological contactor, the effluent is circulating over the plastic media several times.

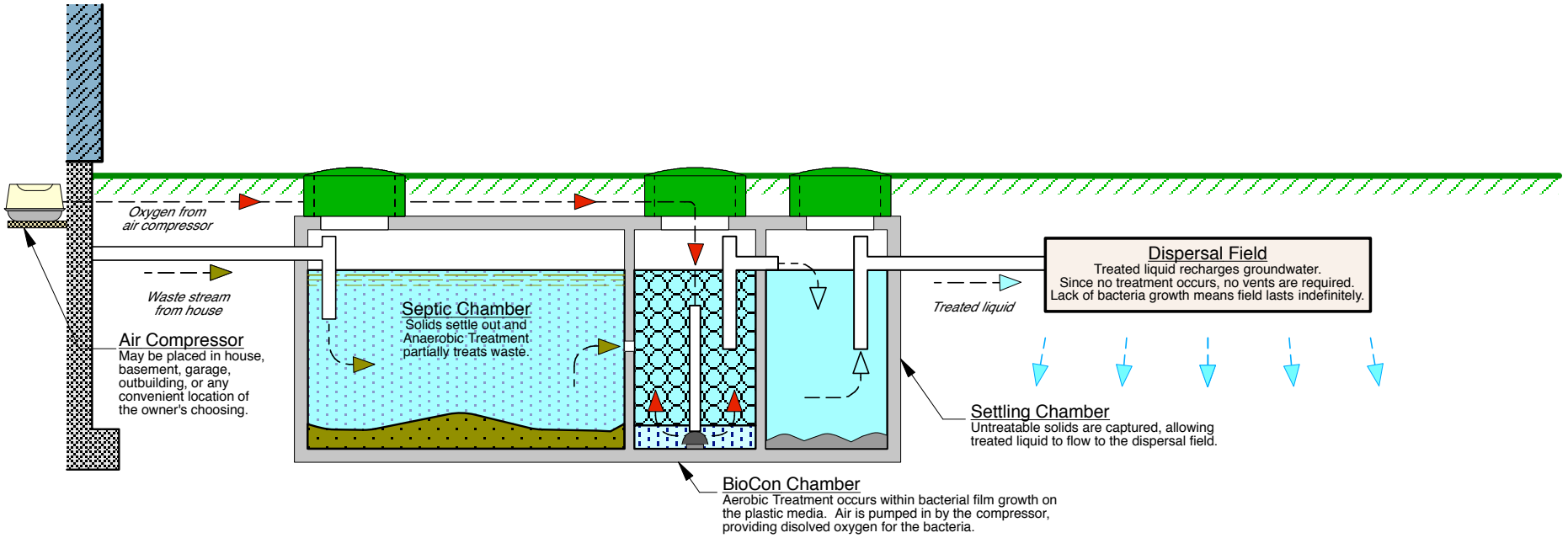
THE CLEAN SOLUTION uses the same biological process as a municipal secondary treatment plant utilizing the activated sludge process. Solids are settled out and air is added for bacteria respiration in the BioCon. This allows the bacteria to convert the carbonaceous dissolved solids to carbon dioxide, water and sludge. In addition the urea and ammonia converts to nitrates and sludge. The sludge created is settled for periodic removal from the system, and a clean, odorless effluent is discharged to the dispersal field.

The major difference between a conventional septic system and *THE CLEAN SOLUTION* is where the bacteria (sludge) collect. In a conventional system, the sludge forms in the bottom of the leach field and restricts the effluent flow enough so that the bacteria has time to act. This flow rate through the sludge determines the required field size. In *THE CLEAN SOLUTION* system the sludge is formed in the BioCon chamber resulting in treated; clear effluent discharging to the dispersal field. This field can be greatly reduced in size because there is no for further treatment to reduce BOD and TSS.


Oxygen
(Vent required for any pumped
chamber or fabric based system)
Vent to house vent stack
Vented
Air
Waste stream
from house
Septic Tank
Solids settle out and Anaerobic
Treatment partially treats waste.
Partially
treated effluent
Leach Field
Aerobic treatment occurs along the bacterial film that grows in the leaching component.
This bacterial film "biomat" eventually seals the field, necessitating costly replacement.
Further treatment occurs within the soil
Treated liquid recharges groundwater

LEACH FIELD BASED SEPTIC SYSTEM

Treatment occurs within the leach field components, whether fabric wrapped pipes or mats, concrete or plastic chambers or traditional pipe & stone.



THE CLEAN SOLUTION™ ALTERNATIVE SEPTIC SYSTEM

Treatment occurs within the BioCon™ Aerobic treatment chamber, allowing for a dispersal area smaller than a leach field.

WASTEWATER ALTERNATIVES, INC.
THE CLEAN SOLUTION™
11 Hethlon Road
Canterbury, NH 03224
Tel. 1-866-900-2415 Fax. 603-783-4499
www.thecleansolution.com

Tocky B.

From: "Margaret Laverty" <mlaverty@sau16.org>
To: <stockton@ttlc.net>
Sent: Tuesday, March 09, 2010 8:24 AM
Subject: septic design for Laverty in stratham

husband Dave

Hi Tocky
My name is Meg Laverty. We spoke in Dec about my leach field needing replacement. I would like to move forward. Because the town of Stratham does not have the plans, nor does the state or the designer, we will have to have a new plan, as we discussed.

I believe the first thing I need to do, if I remember is to have Chris co, you and Terry Barnes out to do a pit test. Right? My husband is off next week. Any day but Monday will work. Do I set it up with Chris co first and he gets everyon else?

Also , my dad has been ill. There is a remote chance he might come to live with us. This would mean we would have to put an addition on the side of the house where the septic is. Is there a possibility of moving the septic to the front? That would mean we would have to replace both the septic and the leach field. How much are we talking (approx) if we had to do the whole thing vs just the leach field. (a couple of years ago I had Blood and Exeter septic give me a price for the leach field, alone, and it was about 7000.00. How much have leach fields gone up?

Thanks for all the info. Look forward to hearing from you.
Meg Laverty
475-2107

Bldg Inspector
Sarah
- 772-7391 -
No town inspector needed -

Thurs 8:30 3/18

- 3 BEDROOMS -

back hoe access
tree need to be
pushed over -

3/9

David 475-2107

Meg Laverty

8 Lamington Place Stratham

Map 4 • Lot 37-4

*Seton Hall

*UNH Business

(* Bleed out *)

10 years Robert Blomberg

-3 owners-

3295-2138

Lot 4 D14280 1985

Carlisle Realty Trust

Blomberg

3105-1962 1995

Mark Ruegger

2675-2213 1987 4/29 L&B

MDF Builders

Community water

MDF 2/6/87 approval

approval #14623

$800 - $1000 - 300 DES

DM laverty @ comcast net